

Comparisons of Job Characteristics

Focus Occupation: Chemical Plant and System Operators (51-8091)

Associated Occupation: Gas Plant Operators (51-8092)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 79

Focus Occupation: Chemical Plant and System Operators (51-8091)

Associated Occupation: Gas Plant Operators (51-8092)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mechanical	6.8	16.8	15.1	<	Expanded education and/or training may be required
Public Safety and Security	6.9	12.1	10.5	<	Expanded education and/or training may be required
Physics	4.3	8.8	7.2	<	Expanded education and/or training may be required
Chemistry	4.8	8.4	12.2	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 92

Focus Occupation: Chemical Plant and System Operators (51-8091)

Associated Occupation: Gas Plant Operators (51-8092)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Operation Monitoring	6.6	16.0	15.9	0	Current skill level may be sufficient
Operation and Control	5.4	12.0	13.6	>	Skill level is likely sufficient
Quality Control Analysis	5.9	10.8	11.5	0	Current skill level may be sufficient
Troubleshooting	4.5	9.4	6.7	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	8.4	7.1	<	A higher skill level may be required
Repairing	3.4	8.4	7.5	<	A higher skill level may be required
Equipment Selection	3.3	6.3	4.8	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 88			
Focus Occupation: Chemical Plant and System Operators (51-8091) Associated Occupation: Gas Plant Operators (51-8092)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Auditory Attention	5.9	13.2	11.1	<	Some improvement in abilities may be required
Perceptual Speed	7.4	12.8	11.4	<	Some improvement in abilities may be required
Reaction Time	4.8	10.7	10.1	0	Current ability level may be sufficient
Hearing Sensitivity	5.6	9.0	10.1	>	Current ability level is likely sufficient
Response Orientation	4.0	8.6	8.8	0	Current ability level may be sufficient
Rate Control	3.8	7.6	7.6	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 100
Focus Occupation: Chemical Plant and System Operators (51-8091) Associated Occupation: Gas Plant Operators (51-8092)		
Work Activities	Exclusivity of Activity	
Adjust production equipment/machinery setup	25	
Analyze test information to determine equipment operating efficiency	89	
Clean equipment or machinery	20	
Confer with engineering, technical or manufacturing personnel	25	
Direct and coordinate activities of workers or staff	3	
Maintain consistent production quality	50	
Maintain or repair industrial or related equipment/machinery	39	
Maintain production or work records	19	
Monitor production machinery/equipment operation to detect problems	27	
Operate chemical processing equipment	77	
Read work order, instructions, formulas, or processing charts	9	
Test materials or solutions	73	
Use precision measuring tools or equipment	17	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Chemical Plant and System Operators (51-8091)

Associated Occupation: Gas Plant Operators (51-8092)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.